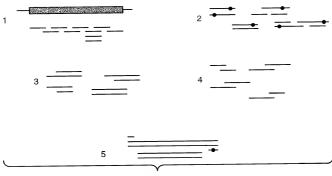


1/7





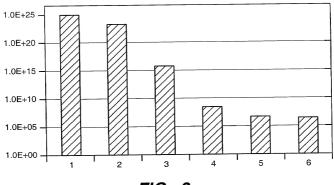


FIG.\_2

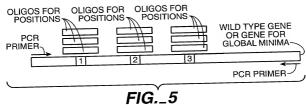
DOSETTOD . CENTODI

USSN: To be assigned Filed August 10, 2001 Art Unit: File No: A-67229-9 (415) 781-1989 SHEET 2 OF 7

2/7



FIG.\_3



USSN: To be assigned Filed: August 10, 2001 Art Unit. File No: A-67229-9 (415) 781-1989

SHEET 3 OF 7

3/7

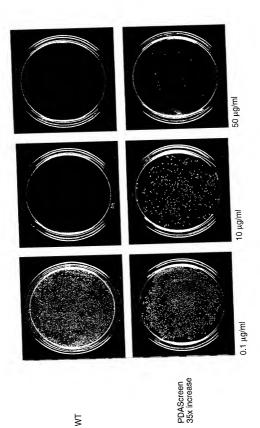


FIG.\_4

USSN: To be assigned Filed: August 10, 2001 Art Unit: File No: A-67229-9 (415) 781-1989 SHEET 4 OF 7



STEP 1: SET UP 3 PCR REACTIONS:

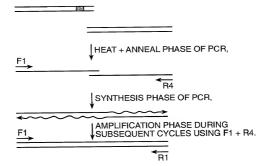
PRODUCTS:

TUBE 1:

TUBE 2:

TUBE 3:

STEP 2: SET UP PCR REACTION WITH PRODUCTS OF TUBE 1 + PRODUCTS TUBE 2 + F1 + R4.



STEP 3: REPEAT STEP 2 USING PRODUCT FROM STEP 2 + PRODUCT FROM STEP 1, TUBE 3 + PRIMERS F1 + R3.

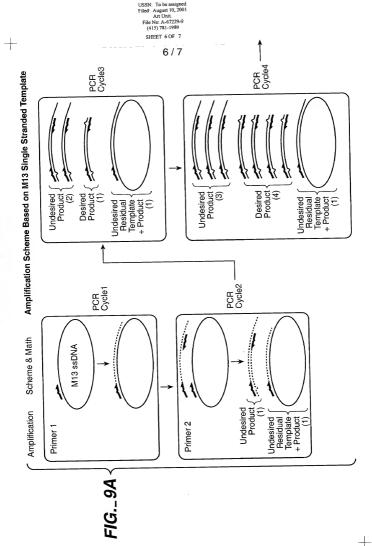
FIG.\_6



Filed: August 10, 2001 Art Unit: File No: A-67229-9 (415) 781-1989 SHEET 5 OF 7 5/7 F1 F2 RĖ1 RĖ2 - R1 **B3** RE2 RE1 - R4 < RE2 STEP 1: SET UP 3 PCR REACTIONS: TUBE 1: RE1 TUBE 2: RĖ2 RE1 TUBE 3: RĖ2 DIGEST PRODUCTS FROM STEP 1 WITH SUITABLE STEP 2: RESTRICTION ENDONUCLEASES. STEP 3: LIGATE DIGESTED PRODUCT FROM STEP 2, TUBE 2 WITH DIGESTED PRODUCT FROM STEP 2, TUBE 1. RE2 RE1 STEP 4: AMPLIFY VIA PCR LIGATED PRODUCTS OF STEP 3 WITH F1 + R4. RE2 RE1 DIGEST AMPLIFIED PRODUCT OF STEP 4 WITH RESTRICTION ENDONUCLEASE #2. RE2 BF1 STEP 6: LIGATE PRODUCT FROM STEP 5 WITH PRODUCT FROM STEP 2, TUBE 1. RE2 RE1 STEP 7: AMPLIFY PRODUCT FROM STEP 6 WITH F1 + R3. FIG.\_7 DIAGRAM 3

FIG.\_8

USSN: To be assigned



USSN: To be assigned Filed: August 10, 2001 Art Unit: File No: A-67229-9 (415) 781-1989 SHEET 7 OF 7

7/7

## Amplification Scheme Based on M13 Single Stranded Template

Numerical Progression of Desired Product with Increasing PCR Cycles

<i>≻FIG.</i> _9B												
2000	Percent Desired Product in Total Product		%00'0	25.00%	20.00%	%5/.89	,000					
WITH HICHERSHIP I OH OF STORE	Undesired Products and Residual Template	-	2	3	4	2						
WILLIAM	Desired Product		0	-	4	F						
	PCR Cycles	-		ı c	4	22	•					

81.25%	%90.68	93.75%	96.48%	%50.86	98.93%	99.41%	%89.66	%83%	99.91%	99.95%	%26.66	%66.66	%66'66	100.00%
9	7	ω	0	10	11	12	13	14	15	16	17	18	19	20
26	57	120	247	502	1013	2036	4083	8178	16369	32752	65519	131054	262125	524268
9	7	. 00	6	10	Ξ	12	13	14	15	16	17	18	19	20

